UP0403A-()()P SERIES

36 Watt AC/DC Adapter

- Universal Input 90 to 264 VAC
- Conductive EMI Meets FCC/VDE Class B
- MTBF 320 Khrs









SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC
Input Frequency	47-63 Hz
Inrush Current	40A max.(Cold Start)
Line Regulation ¹	± 0.5%

GENERAL SPECIFICATIONS

Hold-up Time	16mS typ.
Efficiency	70% typ.
Leakage Current	0.5mA max.
Short Circuit Protection	Continuous
Overvoltage Protection	5VDC output only
Overload Protection	120-200% of rated value
Continuous Output Power	36W max.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range	0°C to 50°C
Derating 40°C to 50°C	2%/°C
Temperature Coefficient	± 0.02%/°C
Storage Temperature Range	40°C to +85°C
Humidity, Non-Condensing	0 to 95% RH
Cooling	Free- Air Convection
EMI Filter(on Board):	
Conducted	Meets FCC/VDE Class B
	Specification

NOTE:

1. Measured from 90 to 264 VAC.

OUTPUT SPECIFICATIONS

Model Number	Output ¹ Voltage(Volts)	Output Current Limit(Amps)			Ripple ² P-P	Load Regulation ³ Load Change		Cross ⁴	O/P Power
		Min.	Rated	Max.	(mV)	30-60%	60-100%	Regulation	Max.
UP0403A-01P	+5 +12 -12	0.0 0.5 0.0	4.0 2.0 0.5	4.0 2.0 0.5	5 120 120	± 4% ± 3% ± 1%	± 4% ± 3% ± 1%	 ± 4.0% ± 1.0%	36W
UP0403A-02P	+5 +12 -5	0.0 0.5 0.0	4.0 2.0 0.5	4.0 2.0 0.5	50 120 50	± 4% ± 3% ± 1%	± 4% ± 3% ± 1%	± 4.0% ± 1.0%	36W
UP0403A-03P	+5 +15 -15	0.0 0.4 0.0	4.0 2.0 0.5	4.0 2.0 0.5	50 150 150	± 4% ± 3% ± 1%	± 4% ± 3% ± 1%	± 4.0% ± 1.0%	36W
UP0403A-04P	+5 +24 -12	0.0 0.25 0.0	4.0 1.0 0.5	4.0 1.0 0.5	50 240 120	± 4% ± 3% ± 1%	± 4% ± 3% ± 1%	 ± 4.0% ± 1.0%	36W

NOTES:

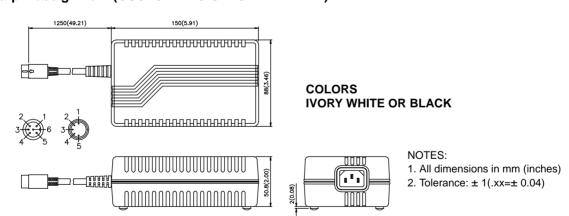
- 3. The 5V output voltage is set to ± 1%, with all the outputs at rated load, any adjustment on the +5V will cause the auxiliary outputs to rise or fall proportionally.
- 4. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to the output cable. Peak to peak and RMS metering equipment shall have a 20 MHz response with probes and cables maintaining frequency response from 200 Hz to 100MHz bandwidth. Output ripple and spikes are measured directly at the output terminals of the power supply without the use of the probe ground clip.
- 5. Load regulation is measured at 115VAC or 230VAC input voltage and UMEC standard output cable.
- 6. Cross regulation is measured by loading the outputs as following: +5V at 3A, +12V at 1.5A or +24V at 1A, -12V at 0.2A or -5V at 0.5A. The varying the +5V output load current from 1.5A to 3A note the effects of load and cross regulation are not cumulative, and may actually act to cancel each other in an operating system environment
- 7. Replace input line fuse with same type rating. Recommended 2A/250 VAC fast blow fuse.

PHYSICAL SPECIFICATIONS

Weight: 550g

Case Material: ABS Plastic UL94V-0 Flammability Rated

DC plug & pin assignment (CUSTOM DESIGN IS AVAILABLE)



Output Pin No.	UP0403A-01P	UP0403A-02P	UP0403A-03P	UP0403A-04P	Conn	ectors
PIN1	GND	GND	GND	GND		
PIN2	+5V	+5V	+5V	+5V	DIN PLUG	DIN PLUG
PIN3	GND	GND	GND	GND		DIN PLUG
PIN4	+12V	+12V	+15V	+24V	(5P 180°)	(6P 240°)
PIN5	-12V	-5V	-15V	-12V		(01 240)
PIN6	+5V	+5V	+5V	+5V		

